Info-Hams Digest   Fri, 21 May 93   Volume 93 : Issue 616

Today's Topics:
                    2 Meters and Airlines (3 msgs)
                      Alinco DJ580 Gets HOT!!!
                    Anyone built the CHU receiver?
                            DX Clusters
        Hamfest SUN, May 23rd at Howard County Fair Grounds
              Intermod/spurious sigs a common HT pro
                        ORBS$142.2liners
              QRZ! CDROM Software Update Available
                      RACES Bulletin #275
                    REAL Mods for the HTX-202
                        Technician Test
                      Why do they DO that?

While the faq for this group has a discussion of this, I will
mention that on a recent Northwest flight up the east coast,
the "fasten seatbelts, put your tray tables in the upright
position" announcement before the flight specifically included
turning off personal computers, cell phones, radios and electronic
games as part of the announcement.

Northwest, at any rate, is making it's policy clear.

Kerry Kingham   Internet: kak@CygX3.usno.navy.mil
U.S. Naval Observatory
Washington, DC

Date: Fri, 21 May 93 13:32:37 GMT
From: walter!porthos!prefect!mgsail@uunet.uu.net
Subject: 2 Meters and Airlines
To: info-hams@ucsd.edu

In article <1993May20.143907.23425@bongo.tele.com> julian@bongo.tele.com (Julian
Macassey) writes:
>   I have used a walkie-talkie from a plane many times.

May I never be on the same plane as you. I worked for years in EMI/RFI/EMP
protection and what one deals with is the probability of causing an error.
Maybe it's one in the navigation equipment. Maybe that's what happened
some years ago with Korean Airlines Flt 007. If I see anyone using a radio
on any of my flights, (radio includes cellular phones) I politely ask them to
stop. If they don't, I tell the crew. Let people take chances with their own
lives not with mine.
Marv
N2OWL

Date: Thu, 20 May 1993 22:53:59 GMT
From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com
Subject: 2 Meters and Airlines
To: info-hams@ucsd.edu

brucec@tekgen.bv.tek.com (Bruce Cheney) writes:

>How about getting them through the security monitors? Do they
>get all excited when they see a small handheld in carry-on
>baggage?

Depends upon the phase of the moon. :-)

I carry an HT, flexible J-pole, broken down Diamond dual band mobile
antenna, Larsen magmount, homemade power regulator for mobile operation, a
notebook PC, and sometimes the desktop charger for my HT through airport
security all the time. Usually the worst that happens is my arms get
longer. I've had the same airport ignore it all and other times ask me to

turn on everything. I once even carried a TK-50 cartridge tape drive
through security. Fortunately I had the power cord with me because they
asked me to show it working to them. I wasn't also carrying my DECstation
with me (not a real portable machine with a 19" color monitor), so I simply
plugged it into the wall and they were happy to see the power indicator
light come on. What a power indicator light is supposed to prove is beyond
me.

So carry it on but be ready to turn it on to show them it does something
other than explode.

73,
Todd
N9MWB

Date: 20 May 1993 20:19:10 GMT
From: sun-barr!west.West.Sun.COM!suntzu!stan@ames.arpa
Subject: Alinco DJ580 Gets HOT!!!
To: info-hams@ucsd.edu

In article G6K@boi.hp.com, dave@boi.hp.com (Dave Fujii) writes:
> I've got a DJ580T HT that, when transmitting on medium or high power
> (12V operation) the unit gets very hot -- too hot to hold! Has anyone
> else experienced this? I'm wondering if something is wrong with the
> unit.
>
> Thanks in advance,
>
> Dave Fujii
> Boise Printer Division R&D Lab
> Hewlett Packard Co.
> (208) 396-4888
> dave@hpdmd48.boi.hp.com
> KBJSQJ

Dave,

     Mine gets very warm also, by the way I belive that the belt cilp
     is part of or is the heat sink for the radio.

Stan
KB6RQZ

Date: 21 May 93 13:05:26 GMT
From: news-mail-gateway@ucsd.edu
Subject: Anyone built the CHU receiver?
To: info-hams@ucsd.edu

In a recent post

>I recently pulled in a schematic from berkeley.edu for
>a CHU (7.333) time receiver, which gives machine
>readable time signals (via a modem chip). I wonder if
>anyone here has built it, and if there might be a PC
>board available somewhere?
>
>TNKS! de - WB5KXH

     What was the name of the file??

     73 -- marty -- nr3z   skitch@nadc.navy.mil

Date: 21 May 93 14:37:21 GMT
From: news-mail-gateway@ucsd.edu
Subject: DX Clusters
To: info-hams@ucsd.edu

I was wondering if anyone knows anywhere the Packet DX cluster info might be
gatewayed to internet/usenet/or bitnet listservers?
--

Stephen P. Baker   phone: (508) 856-2625
Lecturer in Biostatistics   (508) 856-2440 fax
Department of Academic Computing   (413) 253-3923 home
University of Massachusetts Medical School   e-mail: sbaker@umassmed.ummed.edu
55 Lake Avenue North   -. .---- --. - --.- -.... .- .-
Worcester, MA 01655

Date: Fri, 21 May 1993 14:12:35 GMT
From: ddsw1!news.kei.com!sol.ctr.columbia.edu!NewsWatcher!user@uunet.uu.net
Subject: Hamfest SUN, May 23rd at Howard County Fair Grounds
To: info-hams@ucsd.edu

In article <rbolt-170593134302@128.183.16.116>, rbolt@postman.gsfc.nasa.gov
(Dick Bolt) wrote:

```
>
> Washington DC area hamfest at Howard County fair grounds as usual. Many in
> doors in big barn. I expect to be parking as usual with the crew and
>CORRECT DATE IS MAY 30th, not as stated above! Thanks to astute readers I am
correcting this. My mistake!
```

Date: 21 May 1993 14:56:17 GMT
From: elroy.jpl.nasa.gov!swrinde!emory!europa.eng.gtefsd.com!slc20!
wwhitby@ames.arpa
Subject: Intermod/spurious sigs a common HT pro
To: info-hams@ucsd.edu

How do the ICOM mini HT's rate as far as intermod problems?

Warren Whitby

Date: 21 May 93 19:17:12 GMT
From: news-mail-gateway@ucsd.edu
Subject: ORBS$142.2liners
To: info-hams@ucsd.edu

SB KEPS @ AMSAT $ORBS-142.N
2Line Orbital Elements 142.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM N3FKV HEWITT, TX   May 22, 1993
BID: $ORBS-142.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10
1 14129U 83 58 B 93137.05542919 -.00000096 00000-0 99999-4 0 9905
2 14129 27.0806 25.2375 6017167 81.8439 338.1960 2.05881366 74625
UO-11
1 14781U 84 21 B 93133.55981338 .00000478 00000-0 85537-4 0 4151
2 14781 97.8149 161.4920 0012638 104.5645 255.6966 14.68980543491639
RS-10/11
1 18129U 87 54 A 93139.86694830 .00000088 00000-0 89554-4 0 6149

```
2 18129  82.9249 259.5379 0012893  41.9117 318.3019 13.72317020295965
AO-13
1 19216U 88 51  B 93137.48909114 -.00000218  00000-0  99999-4 0  6022
2 19216  57.8364 316.2182 7241715 315.2377   5.2286  2.09726051 37715
FO-20
1 20480U 90 13  C 93140.65060133 -.00000012  00000-0  47575-6 0  4463
2 20480  99.0382   2.0542 0541199 148.9721 214.4563 12.83219311153781
AO-21
1 21087U 91  6  A 93140.82369863  .00000085  00000-0  82656-4 0  7640
2 21087  82.9426  73.0805 0036979  96.8487 263.6874 13.74518241115683
RS-12/13
1 21089U 91  7  A 93140.81345646  .00000048  00000-0  44833-4 0  4040
2 21089  82.9212 302.4173 0030104 118.8199 241.5997 13.74022316114766
UO-14
1 20437U 90  5  B 93139.10140954  .00000102  00000-0  47530-4 0  7500
2 20437  98.6146 223.6960 0010587 269.2864  90.7103 14.29770151173275
AO-16
1 20439U 90  5  D 93136.23359617  .00000108  00000-0  49710-4 0  5563
2 20439  98.6210 221.7144 0010987 279.7090  80.2851 14.29829399172871
DO-17
1 20440U 90  5  E 93136.22608044  .00000112  00000-0  51209-4 0  5588
2 20440  98.6224 221.9116 0010942 278.7041  81.2903 14.29964725172888
WO-18
1 20441U 90  5  F 93135.77528381  .00000138  00000-0  61199-4 0  5603
2 20441  98.6222 221.4946 0011847 281.8943  78.0915 14.29945631172820
LO-19
1 20442U 90  5  G 93136.26896614  .00000129  00000-0  57802-4 0  5578
2 20442  98.6228 222.1533 0011977 278.7246  81.2579 14.30034807172909
UO-22
1 21575U 91 50  B 93138.23131467  .00000143  00000-0  55360-4 0  2563
2 21575  98.4745 214.8206 0008314  30.6346 329.5324 14.36823358 96365
KO-23
1 22077U 92 52  B 93132.82090716  .00000000  00000-0  99999-4 0  1022
2 22077  66.0763  38.2288 0006531 205.4608 154.6089 12.86277546 35299
ARSENE
1 22654U 93 31  B 93137.48958333 -.00000050  00000-0  99999-4 0    65
2 22654   1.0600 131.6586 2871880 137.7750 108.0700  1.40134121   140
NOAA-9
1 15427U 84123  A 93140.61369621  .00000142  00000-0  85525-4 0  3730
2 15427  99.1019 180.3154 0014155 246.0699 113.8965 14.13515337434887
NOAA-10
1 16969U 86 73  A 93140.82237467  .00000130  00000-0  63697-4 0  2139
2 16969  98.5171 156.6446 0014146  38.5839 321.6360 14.24802087346738
MET-2/17
1 18820U 88  5  A 93133.79374039  .00000084  00000-0  69095-4 0  8692
2 18820  82.5405 226.2610 0015248 221.1620 138.8390 13.84683246267088
MET-3/2
1 19336U 88 64  A 93136.81523903  .00000043  00000-0  99999-4 0   415
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2 19336  82.5368 244.1401 0015682 170.8653 189.2758 13.16958091231081
NOAA-11
1 19531U 88 89   A 93140.83408294  .00000150  00000-0  91216-4 0  1202
2 19531  99.1305 116.0914 0011963 151.8329 208.3526 14.12876133239814
MET-2/18
1 19851U 89 18   A 93140.83185621  .00000053  00000-0  41609-4 0  8060
2 19851  82.5192  96.7339 0012901 250.8635 109.1126 13.84333039213409
MET-3/3
1 20305U 89 86   A 93140.59408551  .00000043  00000-0  99999-4 0  7146
2 20305  82.5576 184.3463 0015198 183.5586 176.5432 13.16020698171478
MET-2/19
1 20670U 90 57   A 93140.57715067  .00000044  00000-0  34426-4 0  5583
2 20670  82.5478 160.3187 0015561 163.9568 196.2088 13.84174563146303
FY-1/2
1 20788U 90 81   A 93140.91269109  .00000013  00000-0  20032-4 0  5639
2 20788  98.8710 168.0132 0016108  21.9591 338.2262 14.01324391138763
MET-2/20
1 20826U 90 86   A 93140.84146892  .00000054  00000-0  43771-4 0  5632
2 20826  82.5247  98.1483 0014975  65.0830 295.1884 13.83547169133505
MET-3/4
1 21232U 91 30   A 93140.76758030  .00000043  00000-0  99999-4 0  3637
2 21232  82.5464  87.1308 0019287  95.4781 264.8510 13.16821970 99719
NOAA-12
1 21263U 91 32   A 93140.51999607  .00000232  00000-0  12172-3 0  5733
2 21263  98.6579 171.0970 0012194 297.9552  62.0389 14.22258945104714
MET-3/5
1 21655U 91 56   A 93140.77113288  .00000043  00000-0  99999-4 0  4209
2 21655  82.5542  33.8801 0014519  94.5413 265.7368 13.16820564 84810
MIR
1 16609U 86 17   A 93140.93770214  .00009359  00000-0  12414-3 0   828
2 16609  51.6214 356.3380 0000237 309.6779  50.4137 15.59016688414888
HUBBLE
1 20580U 90 37   B 93140.54121689  .00001086  00000-0  95663-4 0   985
2 20580  28.4708 242.4189 0004692 115.9418 244.1636 14.92674727167386
GRO
1 21225U 91 27   B 93140.20761999  .00021102  00000-0  14398-3 0  8950
2 21225  28.4605 140.5173 0003474  61.7395 298.3562 15.73187518120845
TUBSAT
1 21577U 91 50   D 93138.62215873  .00000096  00000-0  39878-4 0  2565
2 21577  98.4738 214.8012 0007303  33.1692 326.9950 14.36373274 96399
SARA
1 21578U 91 50   E 93139.64871891  .00000672  00000-0  23404-3 0  4263
2 21578  98.4780 217.3366 0005514  35.1304 325.0247 14.38415713 96623
UARS
1 21701U 91 63   B 93122.53196977  .00002451  00000-0  23423-3 0  2468
2 21701  56.9874   4.4971 0004735  74.4314 285.7213 14.96616599 89460
FREJA
1 22161U 92 64   A 93114.90056143 -.00000046  00000-0  56228-6 0  1261
```

```
2 22161  63.0052 270.4590 0770030 278.1191  73.3243 13.21618478 26510
/EX
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Date: 20 May 1993 21:16:49 GMT
From: sun-barr!news2me.EBay.Sun.COM!west.West.Sun.COM!l1-a!flloyd@ames.arpa
Subject: QRZ! CDROM Software Update Available
To: info-hams@ucsd.edu

Those who have recently purchased the QRZ! Ham Radio CDROM will be
pleased to know that a bug fix update to the search and retrieval
program QRZ.EXE is not available for anonymous FTP from the host
cdrom.com in the directory /cdrom/cdroms/ham.  The updated program
is called QRZ_NEW.EXE  This version corrects the off-by-one-day
date display problem.

Also included is the technical description for the callsign database
index files and search method for those wishing to develop their
own software.  Get the file called qrz_tech.txt

In addition, there were a couple of files missing from the /unix
source tree, which are available in the file cbsrc.shar.


Again, these files are available via anonymous ftp from the machine

cdrom.com

in the directory  /cdrom/cdroms/ham

Feel free to redistribute these files as you wish.


E-mail me direct if you have any questions regarding QRZ!


-fred

[ Fred Lloyd, AA7BQ                      Fred.Lloyd@West.Sun.COM ]
[ Sun Microsystems,                           Systems Engineer ]
[ Phoenix, AZ                                  (602) 224-3517 ]

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Date: 21 May 93 14:54:03 GMT
From: news-mail-gateway@ucsd.edu
```

SUBJECT: MGT - Follow the chain of command

     RACES Radio Officers, volunteer or paid, are part of the
management in the agency for which they serve. In that role it's
proper for them to network and coordinate with their counterparts
in neighboring jurisdictions. This helps when one jurisdiction
needs help and resources from another jurisdiction to support an
incident.

     However, here is where Radio Officers must be careful. It is
a natural tendency to contact the other jurisdiction's Radio
Officer and bypass his or her agency coordinator. This could
cause irreparable damage by cutting an official out of the loop.
Some may consider such an act as tantamount to "stealing" the
jurisdiction's resources without their knowledge. Making sure
your Radio Officer understands the proper procedure for inter-
jurisdictional contacts avoids such a faux pas from affecting
your RACES program.

     During a major incident, a county RACES officer tried to
reach an adjoining county Radio Officer without success. When
asked if he had contacted that county's disaster director, he
admitted he had not. The mutual aid might have been forthcoming
if the chain of command had been followed.

     In another incident the Radio Officer bypassed the agency
official, went direct to the other Radio Officer and stirred up a
hornets nest in the process when the authorizing official
discovered his RACES unit was involved without his knowledge.
While situations vary, and events change, it seems wise to be
sure your Radio Officer understands your policies and procedures.

EOM

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races
and can be retrieved using FTP.

Date: 21 May 93 14:06:43 GMT
From: news-mail-gateway@ucsd.edu
Subject: REAL Mods for the HTX-202
To: info-hams@ucsd.edu

>Yes beleive it or not I found an UNPUBLISHED mod for the HTX-202 and will
>be forwarding this to R.S. , etc.

I'd swear i saw this in the book that came with mine....but i don't have it
here so i'll have to see if i can remember to check this out. KD4UGA came by
this morning and asked me if i knew and i told him. his response was "oh, you
already read it..." and i said "No, i think it's in the book..."

This seems to be a problem with many packet messages...someone RTFMs and then
writes messages to the world proclaiming a great new discovery.

unless it's not in the book. then it'd probably qualify with the discovery of
the electron or something....

bill wb9ivr

Date: 21 May 93 13:42:59 GMT
From: news-mail-gateway@ucsd.edu
Subject: Technician Test
To: info-hams@ucsd.edu

I am in the process of studying for my technician plus exam. I was
wondering if there is any DOS software available that has the
questions available. I have a program that has all the novice
questions and an outdated one that includes the technician. If
anyone knows where I can ftp one I would appreciate it. By the way I
do have a copy of the questions as I bought a book from Radio Shack,
but it's alot easier to have sample tests etc. on the screen. You can
either reply to this list or to me direct, bob@ia-ngnet.army.mil.

--

                                     Bob Powers
                                     WO1, Iowa ARNG
                                     Database Administrator

Date: 20 May 1993 16:13:00 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!news.ans.net!

rpi!rs6309.ecs.rpi.edu!maessm@network.UCSD.EDU
Subject: Why do they DO that?
To: info-hams@ucsd.edu

In article <1993May17.200456.1621@icd.teradyne.com>, ardai@wizard.atb.teradyne.com
(Michael Ardai) writes:

|> Does anyone know why Icom required me to perform the out-of-band mod on
|> my 24at in order to transmit within the ham band at 439 MHz?

Because the normal FM subband in the 70cm band (in the U.S) goes from 440-450
MHz. 439 MHz is set aside for weak signal work (SSB, CW, satellites, EME), I
believe.
--
Mat Maessen   N2NJZ | maessm@rpi.edu
------------------------------ +------------------------------------
disclaimer: Anyone NOT singing will have a can of Foster's lobbed at
their heads.

(c) 1993 Fake-sig Co., Inc.

Date: Fri, 21 May 1993 14:41:30 GMT
From: europa.eng.gtefsd.com!emory!sol.ctr.columbia.edu!NewsWatcher!
user@uunet.uu.net
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <1993May20.143907.23425@bongo.tele.com>,
<1993May21.133237.3600@porthos.cc.bellcore.com>
Subject : Re: 2 Meters and Airlines

I just read ALL 22! Lots of ZZZZZZZz. The thing that comes through for me
is if one ham unit causes a problem we all will not be able to take them
along, likely not even in the luggage. Yes I think its likely rediculas
except for landings and takeoffs, but the pleasure is not worth any undue
risk at 30K feet. Its a ling way down to touch thoes back yard antennas! I
have always asked for the top floor in hotels and took off the mike at
connector to prevent any accidental operation in the overhead. Mine is 3
watts FM or SSB out on 2. Likely based on future free phone calls that the
airline can't charge you for anyway. Lets fight it other ways, such as in
their pocket book. We fly on thoes that are type compatible and allow it
and not the others. This BB could aid in getting this going. Any takers?
W1DGA

Date: Thu, 20 May 1993 19:13:52 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!doc.ic.ac.uk!pipex!bnr.co.uk!corpgate!
crchh327!bnr.ca!tnichols@network.UCSD.EDU
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <C7AE8L.JtM@ucdavis.edu>,
<2867@tekgen.bv.tek.com>o.uk
Subject : Re: 2 Meters and Airlines

In article <2867@tekgen.bv.tek.com>, brucec@tekgen.bv.tek.com (Bruce Cheney)
      writes:
|> How about getting them through the security monitors? Do they
|> get all excited when they see a small handheld in carry-on
|> baggage?
|>
|> Bruce Cheney NI7M
|>

I sometimes have my HT in my backpack and let it be x-rayed. No problem. I
sometimes have it on my belt, particularly if I talked on the way to the air-
port or if my carry-on luggage is full, and I just hand it to the guard and
switch it on. No problem. I have carried my HT on passenger aircraft about
a dozen or 14 times (a round-trip flight counts twice), and have never had
any problem, or even a reaction from the security personnel. HT's are a lot
less trouble than a laptop :-)

I have never keyed the radio on board the aircraft, though   1/2 :-)

Todd Nichols   Bell Northern Research, Richardson, TX   (214) 684-2651
tnichols@bnr.ca
KB0HQU   BNR didn't say it; I did

Date: Fri, 21 May 93 13:22:17 GMT
From: walter!porthos!prefect!mgsail@uunet.uu.net
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <C7AE8L.JtM@ucdavis.edu>,
<2867@tekgen.bv.tek.com>il
Subject : Re: 2 Meters and Airlines

In article <2867@tekgen.bv.tek.com> brucec@tekgen.bv.tek.com (Bruce Cheney)
writes:
>How about getting them through the security monitors? Do they
>get all excited when they see a small handheld in carry-on
>baggage?

I've never had a problem with security and I carry with me when I travel. I
travel a lot.

Just to share a story of using it on an airline:
On a trip from Denver to Newark, the plane was diverted to Syracuse due to
weather. Once on the ground in Syracuse, we did not know when we would take
off and we were held on the tarmac away from the terminal. I asked the flight
attendant if I could use a radio. She said "OK" and I proceeded to contact
a local ham who called my wife to tell her to go to sleep, I'd be very late.
The ham that helped got a big kick out of this and I listened to him tell his
buddies on 2m about the "guy on the plane." Nice people, hams.
Marv
N2OWL
.

Date: 21 May 93 02:05:01 GMT
From: ogicse!uwm.edu!ux1.cso.uiuc.edu!howland.reston.ans.net!wupost!
crcnis1.unl.edu!mcduffie@network.UCSD.EDU
To: info-hams@ucsd.edu

References <9305191754.AA00648@ucsd.edu>, <C7AE8L.JtM@ucdavis.edu>,
<2867@tekgen.bv.tek.com>crcnis1
Subject : Re: 2 Meters and Airlines

brucec@tekgen.bv.tek.com (Bruce Cheney) writes:

>How about getting them through the security monitors? Do they
>get all excited when they see a small handheld in carry-on
>baggage?

>Bruce Cheney NI7M

You don't send it through the security monitor. You put it in the
plastic bucket with the rest of your pocket items and it is passed
around the monitor. On the other side, they will sometimes want you to
turn it on and open the squelch to prove it can at least be called a
receiver. They want to hear the open squelch. Same with camcorders,
etc. They had me turn it on so they could see light in the viewfinder
and that was all that mattered.

Shows to go ya, if you want to carry a bomb, put a monitor on it and
make it light. :)

Generally, I thought it was entirely too easy to carry things like
that onto the plane.

As for operating, it's taboo. In fact, the stewardess reminded both my
wife and I more than once. You can't even turn it on. For the benefit
of the person who asked the original question, the real problem is
local oscillator radiation interfering with the IFR equipment. While
you may have done it several times, it is not safe to assume that you
didn't cause any problem. Just last week, the industry clamped down
harder and two of the airlines have said no more laptop computers or
cd players while on board. They have had too many problems with rf
interference throwing off nav gear.

73,


```
Gary McDuffie, Sr.          //                    ---o------\./------o---
Scottsbluff, Nebraska   \\ //  mcduffie@unl.edu  ---o----/T\----o---
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